

REC'D FEB 15 1999

MSDS #N40

6119

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

X46010081-010

X46010082-010



IDENTITY (As Used on Label and List) H.B. 30
 HYDRO-BALANCE ICE MACHINE CLEANER
 Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I #H-30T, H-300, (H-301) (H-316) → CHM00130 → CHM00129

Manufacturer's Name North American Research Corporation
 Emergency Telephone Number During Transit-INFOTRAC (972) 492-1800 800-535-5053

Address (Number, Street, City, State, and ZIP Code) P.O. Box 1318
 Telephone Number for Information (972) 492-1800

Lewisville, TX 75067
 Date Prepared 1/21/98

Signature of Preparer (optional)
[Handwritten Signature]

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
*Phosphoric Acid (CAS #7664-38-2)	1mg/m ³	1mg/m ³	3mg/m ³	< 42
Citric Acid (CAS #77-92-9)	N/A	N/A	2mg/m ³	< 4

NFPA HAZARD RATING: SHIPPING DESCRIPTION: 1) CONSUMER COMMODITY ORM-D (No Hazmat charge)
 "2" Health a) For domestic, ground shipments of packages no more than 66#
 "0" Flammable gross weight and inner packages no more than 1 gallon.
 "0" Reactivity 2) PHOSPHORIC ACID SOLUTION, 8, UN1805, PGIII (Hazmat charge)
 a) For all other shipments.

If the hazardous ingredients are listed with an asterisk*, the ingredient is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

RQ = 5000 pounds. This product is not a VOC

Section III - Physical/Chemical Characteristics

Boiling Point @ 760mm Hg	260°F	Specific Gravity (H ₂ O = 1)	1.11
Vapor Pressure (mm Hg.) @ 20°C	.0285	Melting Point	N/A
Vapor Density (AIR = 1)	3.4	Evaporation Rate (Butyl Acetate = 1)	1.9

Solubility in Water Complete pH = 1

Appearance and Odor Clear to light green liquid; Odorless

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Not flammable	Flammable Limits	LEL N/A	UEL N/A
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Extinguishing Media Use extinguishing agents appropriate to surrounding fire.

Special Fire Fighting Procedures Use full protective clothing and self-contained breathing apparatus for surrounding fire.

Unusual Fire and Explosion Hazards Containers should be water sprayed to prevent overheating. Thermal decomposition emits fumes of phosphorus oxides.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid Reacts vigorously with strong bases (e.g. caustic soda and caustic potash).
	Stable	X	

Incompatibility (Materials to Avoid)
Avoid contact with sulfides and sulfites which could release toxic gases.

Hazardous Decomposition or Byproducts
Thermal decomposition will emit toxic phosphorous oxide fumes.

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? X Skin? X Ingestion? X

Health Hazards (Acute and Chronic)
Dermal contact is expected to be the primary route of occupational exposure. This product is considered to be corrosive to the eyes and skin. It may not produce an immediate burning sensation upon skin contact, delaying the awareness that contact has occurred.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? Yes

Not a carcinogen

Signs and Symptoms of Exposure
After 24 hours of exposure, irreversible eye & skin damage occurs at high concentrations. Single oral doses & single dermal applications are slightly toxic at high concentrations.

Medical Conditions
Generally Aggravated by Exposure Existing dermatitis may be aggravated by prolonged exposure.

Emergency and First Aid Procedures
IF IN EYES OR ON SKIN: immediately flush with plenty of water for at least 15min. while removing contaminated clothing & shoes. Call a physician. Wash clothing before reuse. INGESTION: drink Milk of Magnesia, egg whites or plaster slurry. Call physician immediately.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Contain spills & leaks to prevent discharge to the environment. Neutralize cautiously with soda ash or lime. Keep product out of sewers, watersheds & water systems.

Waste Disposal Method Consult regulatory officials regarding federal, state & local requirements. Unneutralized phosphoric acid when discarded is a hazardous waste exhibiting the characteristics of corrosivity. Its disposal is regulated by federal RCRA regulations.

Precautions to Be Taken in Handling and Storing
Store drums or containers away from heat and out of direct sunlight.

Other Precautions
Read entire label before using. For Professional, Industrial & Institutional use only.
Keep out of reach of children.

Section VIII — Control Measures

Respiratory Protection (Specify Type)
Use NIOSH approved equipment with full facepiece when airborne exposure limits are exceeded.

Ventilation	Local Exhaust Use in well ventilated areas	Special N/A
	Mechanical (General) N/A	Other N/A

Protective Gloves Recommended Eye Protection Safety glasses or goggles

Other Protective Clothing or Equipment
Aprons are recommended where splashing is likely.

Work/Hygienic Practices
Provide safety shower & eyewash baths where splashing can occur. Wash hands after use.